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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,301	10/06/2003	Hiroo Takizawa	Q77851	4148
65565 SUGHRUE-265	7590 04/05/2007 5550		EXAMINER	
2100 PENNSYLVANIA AVE. NW			ANGEBRANNDT, MARTIN J	
WASHINGTON, DC 20037-3213			ART UNIT	PAPER NUMBER
			1756	
			MAIL DATE	DELIVERY MODE
			04/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/678,301	TAKIZAWA ET AL.	
Examiner	Art Unit	
Martin J. Angebranndt	1756	

	Martin J. Angebranndt	1/56	
The MAILING DATE of this communication appe	ars on the cover sheet with the d	orrespondence add	ress
THE REPLY FILED 22 March 2007 FAILS TO PLACE THIS AP	PLICATION IN CONDITION FOR	ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a No a Request for Continued Examination (RCE) in compliance time periods:	ving replies: (1) an amendment, aff tice of Appeal (with appeal fee) in (idavit, or other eviden compliance with 37 Cl	nce, which FR 41.31; or (3)
 a)	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailin	g date of the final rejection	on.
Examiner Note: If box 1 is checked, check either box (a) or (TWO MONTHS OF THE FINAL REJECTION. See MPEP 70	06.07(f).		
Extensions of time may be obtained under 37 CFR 1.136(a). The date nave been filed is the date for purposes of determining the period of exunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	tension and the corresponding amount shortened statutory period for reply orig than three months after the mailing da	of the fee. The appropri inally set in the final Offi	iate extension fee ce action; or (2) as
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter a Notice of Appeal has been filed, any reply must be filed AMENDMENTS 	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of th	
3. The proposed amendment(s) filed after a final rejection, (a) They raise new issues that would require further co	nsideration and/or search (see NO		ecause
(b) ☐ They raise the issue of new matter (see NOTE belo (c) ☒ They are not deemed to place the application in bet appeal; and/or	•	ducing or simplifying	the issues for
(d) They present additional claims without canceling a NOTE: See Continuation Sheet. (See 37 CFR 1.1		ected claims.	
4. The amendments are not in compliance with 37 CFR 1.1	,	mpliant Amendment	(PTOL-324)
5. Applicant's reply has overcome the following rejection(s)			(
6. Newly proposed or amended claim(s) would be all non-allowable claim(s).		timely filed amendme	ent canceling the
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is profit The status of the claim(s) is (or will be) as follows: Claim(s) allowed: <u>none</u> .		II be entered and an e	explanation of
Claim(s) objected to: <u>none</u> . Claim(s) rejected: <u>16</u> . Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
B. The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good anwas not earlier presented. See 37 CFR 1.116(e).			
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to of showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appe y and was not earlier presented. S	al and/or appellant fai see 37 CFR 41.33(d)(ils to provide a 1).
10. The affidavit or other evidence is entered. An explanatio REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after e	ntry is below or attach	ned.
 The request for reconsideration has been considered bu <u>See Continuation Sheet.</u> 	t does NOT place the application in	n condition for allowar	nce because:
12. Note the attached Information Disclosure Statement(s).	(PTO/SB/08) Paper No(s)	// /	
13. Other:		Ut/1	
		Martin J Angebrann	ndt
		Primary Examiner	- -

U.S. Patent and Trademark Office PTOL-303 (Rev. 08-06)

Continuation Sheet (PTO-303)

Continuation of 3. NOTE: Claim 21 to the material is improperly dependent upon claim 16 which is to a method of use and is newly presented without cancelling another claim

Continuation of 11. does NOT place the application in condition for allowance because: The rejection is merely stating that it would have been obvious to use two photon exposure processes with the composition including the oxonol dye PS-31. to gain the advantages in resolution and the ability to cause polymerization only in the focal volume. The secondary references do support the broader position argued by the applicant in that, with a sufficient intensity, two photons which sum to equal the energy of the single photon absorption can be used to cause the dye to reach the same excited state as the single photon absorption (the transition is quantized). The secondary references establish the conditions for two photon absorption, specifically including the intensity and the energy of the photons and a reasonable expectation of success in using a Ti:sapphire for this. The applicant's analysis of the meaning of "simultaneous" is flawed. The process is that a first photon excites the dye to a first, metastable state which has a lifetime on the order of a few nanoseconds and without absorbing a photon within this time period, it will decay back to the ground state, but if a second photon is absorbed, the dye will reach the excited state. The absorption is inherently stepwise, but occurs on the order of a few nanoseconds (it is nearly simultaneous) The rejections stand and claim 21 has not been entered for the reasons above, so those arguments are moot.